General Education Outcomes in CHM 2210

1. **Communicate effectively using listening, speaking, reading and writing skills**
   
   This communication outcome will be reinforced by giving an essay assignment related to current subject matter and you will be graded for content, grammar and spelling.

2. **Use of quantitative analytical skills to evaluate and process numeral data**
   
   In class you will be able to use numerical data in calculating empirical and molecular formulae of organic compounds. In addition you will learn about the appropriate conditions needed to give certain products in organic reactions and to analyze them using IR, NMR and UV spectroscopy.

3. **Solve problems using critical and creative thinking and scientific reasoning**
   
   You will be given various synthetic problems in which you will be able to use logical steps in solving these problems. Critical thinking and scientific reasoning will be heavily reinforced on this course.

4. **Formulate strategies to locate, evaluate and apply information**
   
   At least one essay assignment related to some topic in organic chemistry will be completed during this semester and referencing will be required to support your viewpoint in this article.

8. **Use computer and emerging technologies effectively**
   
   The use of the computer in supplementing subject matter will be mandatory. In addition you will learn to use the instruments involving IR and NMR spectroscopy and you will also learn how to extrapolate information from these spectra in determining the structure of organic compounds.

10. **Describe how natural systems function and recognize the impact on humans in the Environment**
   
   The chemical nature of organic molecules and their role in biological systems will be a major topic in this course. You will be able to name, identify, and list chemical and physical properties of these organic compounds. In addition you will also be able to identify organic molecules not only in living systems but also in medicine.

   The environmental and health aspects of various types of organic molecules will also be discussed.